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X-T 59
·S7 #1

A.S. No. B. 12—1952

Australian Standard Specification

for

Low Carbon Steel Cylinders

for

The Storage and Transport of Medium Pressure Liquefiable Gases

PUBLISHED BY

STANDARDS ASSOCIATION OF AUSTRALIA

Incorporated by Royal Charter, 1950

PRICE 3/-

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X-T59
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AUSTRALIAN STANDARD CA24.2—1964

2 - MAR 19
1965

AUSTRALIAN STANDARD
GENERAL CONDITIONS OF TENDERING AND FORM OF TENDER
FOR CIVIL ENGINEERING WORKS

TENDER FOR LUMP SUM CONTRACT

FOR USE IN CONJUNCTION WITH
GENERAL CONDITIONS OF CONTRACT FOR CIVIL ENGINEERING WORKS
AUSTRALIAN STANDARD CA24.1

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STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

2-OCT 20
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Australian Standard Methods of Test for SEALERS AND ADHESIVES

FOR AUTOMOTIVE PURPOSES

AS K154

PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
SCIENCE HOUSE, 157 GLOUCESTER STREET, SYDNEY (Copyright)

X-T59
.S7

AUSTRALIAN STANDARD CZ12–1965

(UDC 621.924—783)

5 OCT 22

SAA
ABRASIVE WHEELS
SAFETY CODE

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X - T59
.57

STANDARDS ASSOCIATION OF AUSTRALIA

5 MAY 1965

Standard Method of Test for Sealers and Adhesives
(For Automotive Purposes)

Method No. K154.1, DETERMINATION OF FLOW PROPERTIES IN ABSOLUTE UNITS

1 SCOPE. This method provides a means of evaluating in terms of absolute units the flow properties of sealers, adhesives, coating materials and similar products used in the automotive industry.

2 DEFINITIONS. See Appendix A.

3 OUTLINE OF METHOD. The sample is subjected to shear between a moving surface and a stationary surface in a viscometer. The viscometer can be made to operate at a number of known speeds of rotation providing a series of rates of shear, and the resistance to the rotation can be measured and expressed as shear stress. The instrument readings are converted to absolute units and the rate of shear plotted against shear stress. The graph obtained called a rheogram gives the flow characteristics of the sample under the conditions of test.

NOTE: Bibliographic references are given in Appendix B.

4 EQUIPMENT.

4.1 A viscometer having at least six suitable speeds of rotation and sufficient measuring systems to cover the range of products likely to be encountered. It is essential that the viscometer be designed to permit direct conversion of instrument readings to absolute units of rate of shear (sec^{-1}) and shear stress ($dynes/cm^2$).

NOTE: The Drage Rheomat is a suitable instrument.

4.2 A timing device accurate to one half a second.

4.3 A water bath the temperature of which can be controlled to within 0.3 degC (0.5 degF) of the desired temperature.

4.4 A thermometer of suitable range the scale error of which does not exceed 0.3 degC (0.5 degF) at any graduation mark.

5 PROCEDURE.

5.1 Place about one quart of well mixed sample in a closed container in a water bath for 2 hours maintaining the water bath at the temperature of test. *Care must be taken to avoid entrapped air at this and subsequent stages.*

5.2 Bring the measuring systems to the temperature of test. Taking each measuring system in turn place a portion of the sample in the viscometer cup and assemble the viscometer with the cup suspended as deeply as possible in the water bath. Maintain the water bath at 25°±0.3°C (77°±0.5°F) unless otherwise specified. Select by trial a measuring system which will provide—

(i) dial readings free from fluctuations;
(ii) a sufficient number of dial readings to permit accurate plotting; and
(iii) the highest rates of shear attainable subject to (ii).

Note the minimum time required to obtain readings free from fluctuations.

5.3 Having selected a suitable measuring system refill the cup with a fresh sample.

5.4 Apply the various speeds of rotation for equal intervals of time in ascending and descending order and record the dial reading for each speed of rotation. Unless otherwise agreed the time intervals employed shall be the minimum time determined in accordance with Clause 5.2.

5.5 Convert the instrument readings to absolute units and using a linear scale draw a graph showing the relationship between rate of shear and shear stress. Provide a copy of this graph together with any reported values.

5.6 From the general form of these graphs as indicated in Figs. 1 to 6 determine the type of substance. If the ascending and descending portions of the curve approximately coincide and thus suggest that the material is time independent proceed as described in Clauses 5.7 to 5.9, as appropriate. If the ascending and descending portions of the curve do not approximately coincide (see Figs. 5 and 6) and thus suggest that the material is time dependent proceed as described in Clause 5.10.

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AUSTRALIAN STANDARD C328—1965

(UDC 621.317.32)

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HIGH VOLTAGE TESTING TECHNIQUES

X-T59S7
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Australian Standard Methods for THE PHYSICAL TESTING OF REFRACTORIES AND REFRACTORY MATERIALS

AS R31

PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
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AUSTRALIAN STANDARD A131—1966

(UDC 665.45:625.85)

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CUTBACK BITUMEN

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X-T59
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#7

AS C114 — 1966 Ap.

(UDC 621.312:621.791.3)

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SAA
Approval and Test Specification
for
ELECTRIC SOLDERING IRONS

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AUSTRALIAN STANDARD G7—1966

(UDC 669.14-122.4)

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HOT-ROLLED CARBON STEELS AND CARBON-MANGANESE STEELS

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AUSTRALIAN STANDARD K160—1966

(UDC 667.633)

2 AUG 30 1966
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SEMI-GLOSS ENAMEL
FOR INTERIOR USE

Incorporated by Royal Charter

STANDARDS ASSOCIATION OF AUSTRALIA

X-T59

Endorsement

57 June 1966

BRITISH STANDARD 3777 : 1964

#12

is endorsed as

AUSTRALIAN STANDARD B233 — 1966

without Australian amendment

The endorsement was recommended by Committee ME/9/L, Metrology, and was approved on behalf of the Council of the Association on 17 June 1966.

STANDARDS ASSOCIATION OF AUSTRALIA
Science House, 157 Gloucester Street, Sydney

X-759

Endorsement

June 1966

.59

BRITISH STANDARD 3730:1964

is endorsed as

#13

AUSTRALIAN STANDARD B219 — 1966

subject to Australian Amendment No. 1

The endorsement was recommended by Committee ME/9, Tools and Gauges, and was approved on behalf of the Council of the Association on 18 May 1966.

STANDARDS ASSOCIATION OF AUSTRALIA
Science House, 157 Gloucester Street, Sydney

Endorsement June 1966

BRITISH STANDARD 3580 : 1964

is endorsed as

AUSTRALIAN STANDARD B232 — 1966

without Australian amendment

x 759
.S7
#14

The endorsement was recommended by Committee ME/10/S, Screw Threads, and was approved on behalf of the Council of the Association on 17 June 1966.

STANDARDS ASSOCIATION OF AUSTRALIA
Science House, 157 Gloucester Street, Sydney

X-T-59

Endorsement

, 59 June 1966

BRITISH STANDARD 2634 : PART 2 : 1964

#15

is endorsed as

AUSTRALIAN STANDARD B196, Part 2 — 1966

without Australian amendment

The endorsement was recommended by Committee ME/9/L, Metrology, and was approved on behalf of the Council of the Association on 17 June 1966.

STANDARDS ASSOCIATION OF AUSTRALIA
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Endorsement

XT59
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June 1966

BRITISH STANDARD 1580 : PART 3 : 1965

#16

is endorsed as

AUSTRALIAN STANDARD B133, Part 3 — 1966

without Australian amendment

The endorsement was recommended by Committee ME/10/S, Screw Threads, and was approved on behalf of the Council of the Association on 17 June 1966.

STANDARDS ASSOCIATION OF AUSTRALIA
Science House, 157 Gloucester Street, Sydney

Endorsement

X-T59

, 57 June 1966

BRITISH STANDARD 1916: PART 3:1963

is endorsed as

#17

AUSTRALIAN STANDARD B132, Part 3 — 1966

subject to Australian Amendment No. 1

The endorsement was recommended by Committee ME/9, Tools and Gauges, and was approved on behalf of the Council of the Association on 18 May 1966.

STANDARDS ASSOCIATION OF AUSTRALIA
Science House, 157 Gloucester Street, Sydney

Endorsement

X-759

, 29 June 1966

BRITISH STANDARD 818:1963

#18

is endorsed as

AUSTRALIAN STANDARD B71 — 1966

subject to Australian Amendment No. 1

This endorsement of B.S. 818:1963 supersedes the endorsement of B.S. 818:1938 which was issued as AS B71-1940.

The endorsement was recommended by Committee ME/9, Tools and Gauges, and was approved on behalf of the Council of the Association on 18 May 1966.

STANDARDS ASSOCIATION OF AUSTRALIA
Science House, 157 Gloucester Street, Sydney

Amendment No. 11
June 1966

X-T59
.S7
#19

STANDARDS ASSOCIATION OF AUSTRALIA

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AMENDMENT No. 11
to
SAA Approval and Test Specification
for
ELECTRIC BREAD TOASTERS
(AS C101—1955 Ap.)

The 1948 edition of AS C101 Ap. which was amended and redated in 1947, 1948, 1950 and 1955, and amended in 1955, 1956, 1958, 1962, 1963 and 1965, is further amended as follows; the amendment should be inserted at the appropriate place.

Clause 4 (d), Construction of Elements.

Include a new paragraph as follows:

The minimum thickness of an element support shall be not less than 0.007 inch if of mica, or 0.010 inch if of micanite.

This amendment forms part of the specification on 1 July 1966.

AMDT No. 11 JUNE 1966

X-T59
.S9 #20

Amendment No. 4
June 1966

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No. 4
to
SAA Approval and Test Specification
for
EDISON-TYPE SCREW LAMPHOLDERS
(AS C140—1960 Ap.)

The 1960 edition of AS C140 Ap. which was previously amended in 1962, 1963 and 1965, is further amended as follows; the amendment should be inserted at the appropriate place.

Clause 10, Switch Lampholders.

Include a new paragraph as follows:

Marking of the 'on' and 'off' positions of switches incorporated in Edison-type screw lampholders is not required.

This amendment forms part of the specification on 1 July 1966.

X-T59
.S7 #21

Amendment No. 9
June 1966

STANDARDS ASSOCIATION OF AUSTRALIA

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AMENDMENT No. 9
to
SAA Approval and Test Specification
for
ELECTRIC LAWNMOWERS
(AS C156—1955 Ap.)

The 1955 edition of AS C156 Ap. which was previously amended in 1958 (twice), 1959, 1961, 1962, 1963 and 1965 (twice), is further amended as follows; the amendment should be inserted at the appropriate place.

Clause 5, Insulation of Hand-grips, etc.

Delete last sentence of third paragraph and *substitute:*

Material used for the insulation of hand-grips shall have a thickness of not less than 0.080 inch at any point which is accessible to the standard test finger and not less than 0.030 inch at any other point. The material shall be resistant to perspiration, oils, greases, weather, sunlight, and shall satisfactorily pass the high voltage test specified in Clause 18(c). AMDT No. 9 JUNE 1966

This amendment forms part of the specification on 1 July 1966.

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57
Amendment No. 8
June 1966
#22

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No. 8
to
SAA Approval and Test Specification
for
ELECTRIC FLOOR POLISHERS
(AS C157—1956 Ap.)

The 1956 edition of AS C157 Ap. which was previously amended in 1959, 1961, 1962 (twice), 1963 and 1965 (twice), is further amended as follows; the amendment should be inserted at the appropriate place.

Clause 9, Insulation of Handle.

Delete item (ii) of the second paragraph (as included by Amendment No. 6, April 1965) and *substitute:*

(ii) have a thickness of not less than 0.080 inch at any point which is accessible to the standard test finger, and not less than 0.030 inch at any other point, and

AMDT No. 8 JUNE 1966

This amendment forms part of the specification on 1 July 1966.

Amendment No. 1
June 1966

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X-T59
.S7 #23

AUSTRALIAN AMENDMENT No. 1

to

AS B219—1966

ASSESSMENT OF DEPARTURES FROM ROUNDNESS

Page 5. *Substitute* "AS B131" for "B.S. 1134", and "AS B132" for "B.S. 1916". AUST. AMDT No. 1 JUNE 1966

Page 7. In Clauses 1 and 2 *substitute* "Australian" for "British" in the first paragraph in each case. AUST. AMDT No. 1 JUNE 1966

Page 23. *Substitute* "a" for "$\bar{x}$" and "b" for "$\bar{y}$" in the last two formulae on the page. AUST. AMDT No. 1 JUNE 1966

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X-759
.57 #24

AMENDMENT No. 9
to
SAA Approval and Test Specification
for
BAYONET LAMPHOLDERS
(AS C117—1955 Ap.)

The 1939 edition of AS C117 Ap. which was amended and redated in 1947, 1950 and 1955, and amended in 1960, 1962, 1963, 1964 and 1965, is further amended as follows; the amendment should be inserted at the appropriate place.

Clause 9, Switch Lampholders.

Include a new paragraph as follows:

Marking of the 'on' and 'off' positions of switches incorporated in bayonet lampholders is not required.

This amendment forms part of the specification on 1 July 1966.

X-T51
57
#25

September 1966

STANDARDS ASSOCIATION OF AUSTRALIA

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CORRIGENDA

to

AS B188, Part 4—1966

VERIFICATION OF PENDULUM IMPACT TESTING MACHINES FOR METALS

Page 9. **Clause 9.5.**

Alter "Section X-X" to "Section "X-Y".

Page 10. **Clause 12.**

In the formula *insert* "cos" before "ϕ".

September 1966

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X-TS9
.S7
#26

CORRIGENDUM
to
AS C61—1963
POWER TRANSFORMERS
(1965 Reprint only)

Page 56. **TABLE 19.**

For Item 6, first line in column 3, *substitute* "level" for "gauge".

September 1966

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X-T59
#27

CORRIGENDUM
to
AS CB2—1960
SAA CRANE AND HOIST CODE
(1963 and 1965 reprints only)

CLAUSE 5.4.2. Equation (13).
Alter the equation to read as follows:

$$M_e = \sqrt{\left[\left(K_M M + \alpha\frac{CFD}{8}\right)^2 + \tfrac{3}{2}(K_T T)^2\right]} \quad \ldots\ldots\ldots\ldots\ldots\ldots (13)$$

X-T59
.S7

September 1966

#28

STANDARDS ASSOCIATION OF AUSTRALIA

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CORRIGENDA

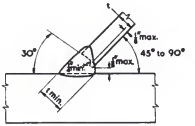
to

AS CA8, PART I—1965

SAA CODE WHERE WELDING IN BUILDING

Page 13. **Fig. 2.2.2.1(y).**

Delete existing diagram (as replaced in Corrigenda, July 1966) and *substitute:*



Page 36. **Fig. 2.5.2(f).**

Alter expression in parentheses (as altered in Corrigenda, July 1966) to read:

$$\frac{D_b}{D_m} \text{ less than } 1/3$$

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Amendment No. 7
September 1966

#29

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

AMENDMENT No. 7

to

SAA Approval and Test Specification

for

EXTRA-LOW VOLTAGE TRANSFORMERS

(AS C126—1958 Ap.)

The 1958 edition of AS C126 Ap. which was previously amended in 1962 (twice), 1963, 1964 and 1965 (twice) is further amended as follows; the amendment should be inserted at the appropriate place.

Clause 4(b), Windings—Transformers Without Screen.

Add the following to the first paragraph:

Thermoplastic material used to separate the primary and secondary windings shall be supplemented by not less than 0.010 inch of insulating material which is not thermoplastic and is so arranged as to maintain separation of the windings in the event of the thermoplastic material flowing under abnormal conditions of operation. The non-thermoplastic material shall be regarded as part of the requisite 0.050 inch of insulation. AMDT No. 7 SEPT. 1966

This amendment forms part of the specification 1 April 1967.

X-T59
.S9

Amendment No. 2
September 1966

#30

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

AMENDMENT No. 2
to
AS K132—1963
ELECTROPLATED COATINGS ON THREADED COMPONENTS
Part 1—Cadmium on Steel Components
Part 2—Zinc on Steel Components

Page 14, **Clause 12, Passivation.**

Delete existing text of Clause 12 and *substitute:*

Chromate passivation shall be carried out by either of the two methods detailed in Appendix A2 or by any alternative processes which are acceptable to the electroplater and the purchaser. Unless otherwise specified by the purchaser a clear film (Method (ii)) shall be supplied. AUST. AMDT No. 2 SEPT. 1966

Where maximum protection is required, an iridescent film (Method (i)) is recommended.

Passivation is carried out after post-plating heat-treatment, as required in Clause 9, if appropriate.

Page 16. **Clause 19, Passivation.**

Delete existing text of Clause 19 and *substitute:*

Chromate passivation shall be carried out by either of the two methods detailed in Appendix A2 or by any alternative processes which are acceptable to the electroplater and the purchaser. Unless otherwise specified by the purchaser a clear film (Method (ii)) shall be supplied. AUST. AMDT No. 2 SEPT. 1966

Where maximum protection is required, an iridescent film (Method (i)) is recommended.

Passivation is carried out after post-plating heat-treatment, as required in Clause 9, if appropriate.

If bleaching of an iridescent film is requested by the purchaser, it may be carried out by the process described in Note 2 (Method (ii)). However it is pointed out that this treatment reduces the protective value of the film.

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Amendment No. 3
June 1966

#31

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

AMENDMENT No. 3
to
SAA Approval and Test Specification
for
DOMESTIC ELECTRIC COOKING APPLIANCES
(AS C172—1963 Ap.)

The 1963 edition of AS C172 Ap. which was previously amended in April 1965 and September 1965, is further amended as follows; the amendments should be inserted at the appropriate places.

Clause 7.3.3, Earthing—Connections in a Hot Zone.

Delete item (ii) and the second paragraph and *substitute:*

(ii) Screwing into metal which is of substantial thickness and will not rust, corrode or oxidize to the extent that the earthing connection may be impaired in service, provided that screwing into cast iron is acceptable if the screwed portion is sealed with a non-corrosive conductive cement. AMDT No. 3 JUNE 1966

This amendment forms part of the specification on 1 July 1966.

Clause 8.9, Immersion Type Heating Units.

Insert the following new paragraph between existing second and third paragraphs:

Heating units of the electrode type shall be completely enclosed in an all-insulated container within the body of the appliance in such a way that live parts, liquid in contact with live parts, or any container which may make contact with such liquid, cannot be touched with the standard test finger when the appliance is energized. Where the appliance is provided with a cover and an interlocking switch in order to fulfil the foregoing requirements, such switch shall, in addition to complying with the requirements of Clause 11 herein, open all live conductors if the appliance is intended for connection by means of a flexible cord. AMDT No. 3 JUNE 1966

This amendment forms part of the specification on 1 July 1966.

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Amendment No. 3
June 1966

#32

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

AMENDMENT No. 3
to
SAA Approval and Test Specification
for
DEFINITIONS AND GENERAL REQUIREMENTS FOR ELECTRICAL MATERIALS AND EQUIPMENT
(AS C100—1964 Ap.)

The 1964 edition of AS C100 Ap. which was previously amended in April 1965 and September 1965, is further amended as follows; the amendments should be inserted at the appropriate places.

Definition 2.25, Insulation, Double.

Delete existing second paragraph and *substitute:*

Except for miniature flexible cords and all types of supply flexible cords, a cable having a sheathing of thermoplastic, rubber or rubber-like material shall be deemed to provide double insulation between the conductors of the cable and any metal in contact with the cable. AMDT No. 3 JUNE 1966

This amendment forms part of the specification on 1 January 1967.

Clause 4.5.4, Location of Terminals.

Add the following sentence to second paragraph:

This does not preclude the terminals of a switch being used as the supply terminals of an appliance, provided that if it is necessary to move the switch for the purpose of connecting the supply flexible cord, the appliance shall incorporate a suitable recess, channel, or space so that the switch and any associated internal wiring will readily return to their correct positions. AMDT No. 3 JUNE 1966

This amendment forms part of the specification on 1 July 1966.

Clause 5.2.1, Insulation of Live Parts—General.

Include a second paragraph as follows:

Unless otherwise specified in a particular clause herein or in an individual approval and test specification, any specified thickness of insulation shall be regarded as applicable at the thinnest point of the insulation, e.g. at the bottom of a screw-driver slot in a brush-holder cap. AMDT No. 3 JUNE 1966

This amendment forms part of the specification on 1 July 1967.

Clause 5.4, Equipment with Double Insulation.

In Note 2 *add* the following words to those in parenthesis in the first line:

". . . or a supply flexible cord". AMDT No. 3 JUNE 1966

This amendment forms part of the specification on 1 January 1967.

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Amendment No. 1
June 1966

#33

STANDARDS ASSOCIATION OF AUSTRALIA
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AUSTRALIAN AMENDMENT No. 1
to
AS B71 — 1966
CAST IRON STRAIGHTEDGES

Page 5. **Clause 1, Scope.**

Substitute "Australian" for "British" in the first line.

AUST. AMDT No. 1 JUNE 1966

Page 8. **Clause 5, Marking.**

Substitute "Australian" for "British" and "AS B71" for "B.S. 818" in sub-clause 5*b*.

Add an asterisk (*) at the end of 5*b* and the following footnote at the bottom of the page:

*For straightedges of British manufacture the marking "B.S. 818" is an acceptable substitute for "AS B71".

AUST. AMDT No. 1 JUNE 1966

Page 8. **Note 2.**

Delete existing text and *substitute:*

Straightedges may be tested for conformity with this standard by laboratories registered with the National Association of Testing Authorities, Australia, for this field of testing and for the accuracy required for a particular grade of straightedge.

AUST. AMDT No. 1 JUNE 1966

Page 11. **Clause 9, Finish.**

In the 1st paragraph *delete* "by a grinding process which produces a similar type of surface to that obtained by scraping" and *substitute:*

"alternatively by grinding, provided that the surface roughness does not exceed 32 micro-inches CLA."

AUST. AMDT No. 1 JUNE 1966

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.S7

Amendment No. 1
June 1966

#34

STANDARDS ASSOCIATION OF AUSTRALIA
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AUSTRALIAN AMENDMENT No. 1
to
AS B132, Part 3 — 1966
LIMITS AND FITS FOR ENGINEERING

Pages 7 and 9. **Figs. 1a and 1b.**

Substitute "mm" for "m/m" at the top and on the right-hand side of the diagram in each case. AUST. AMDT No. 1 JUNE 1966

Page 7. **Fig. 1a.**

Insert above the diagram:

"The relationship between fundamental tolerances and change in size (steel) due to change in temperature". AUST. AMDT No. 1 JUNE 1966

Add below the diagram, under "Fig. 1a":

"DIMENSIONS 19.69 in (500 mm) and smaller"

Page 9. **Fig. 1b.**

Insert above the diagram:

"The relationship between fundamental tolerances and change in size (steel) due to change in temperature". AUST. AMDT No. 1 JUNE 1966

Add below the diagram, under "Fig. 1b":

"DIMENSIONS above 19.69 to 125 in (500 to 3150 mm)"

Page 10. In sub-paragraph *b*, *delete* the words "a tolerance on the required deviation or allowance" and *substitute* "limits for the required interference or clearance". AUST. AMDT No. 1 JUNE 1966

Page 10. In 2nd sentence of 1st paragraph (i.e. commencing "Whether matched fits . . ."), *delete* "however, the deviation" and *substitute* "the nominal (expected) interference or clearance". AUST. AMDT No. 1 JUNE 1966

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AUSTRALIAN STANDARD B188, Part 4—1966

(UDC 620.178.746)

#35

2 AUG 30 1966

METHODS FOR NOTCHED BAR TESTS

Part 4

Verification of Pendulum Impact Testing Machines for Metals

Incorporated by Royal Charter

STANDARDS ASSOCIATION OF AUSTRALIA

X-T59
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AUSTRALIAN STANDARD G17—1966

(UDC 669.14-12)

#36

2 AUG 30
Code 1966

BRIGHT CARBON STEEL AND CARBON-MANGANESE STEEL BARS

Incorporated by Royal Charter

STANDARDS ASSOCIATION OF AUSTRALIA

2 copies Sales Dept

AUSTRALIAN STANDARD O106 — 1966 (Int.)

(UDC 674.03: 694.1)

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STANDARDS ASSOCIATION OF AUSTRALIA

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AUSTRALIAN STANDARD T33—1966

(UDC 536.31:616-072:666.174)

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CLINICAL MAXIMUM THERMOMETERS

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STANDARDS ASSOCIATION OF AUSTRALIA

X-T59
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#39
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AUSTRALIAN STANDARD R13—1966

(UDC 536.51 : 551.508.26 : 666.174)

MAXIMUM, MINIMUM AND ORDINARY METEOROLOGICAL THERMOMETERS

Incorporated by Royal Charter

STANDARDS ASSOCIATION OF AUSTRALIA

2 B. Cat. Early Cat.

AUSTRALIAN STANDARD E41 — 1966

(UDC 621.86:621.798.12)

2 - NOV 25
Copy 1 1966

X-759
.S7
#40

FLAT PALLETS FOR MATERIALS HANDLING

Incorporated by Royal Charter

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2B Cat Seely Cat

AUSTRALIAN STANDARD CC7—1966

(UDC 621.315.3 : 728.76)

X-T59
.S7
2-NOV25
Copy 2 1966
#41

SAA CODE for ELECTRICAL INSTALLATIONS IN CARAVANS AND CARAVAN PARKS

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2B Cat. Sel; Cat.

AUSTRALIAN STANDARD CA37—1966

(UDC 69.025.356)

X-T59
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2 -NOV25
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#42

LAYING OF RESILIENT SHEET AND TILE FLOORING

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AS C178—1966 Ap
(UDC 621.315.2 : 678.84)

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SAA
Approval and Test Specification for SILICONE RUBBER INSULATED CABLES AND FLEXIBLE CORDS

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AUSTRALIAN STANDARD A157—1966

(UDC 669.14.018.29)

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LOW AND INTERMEDIATE TENSILE STRENGTH CARBON STEEL PLATES OF STRUCTURAL QUALITY

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2B Catalog
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2 - JUL 24
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X-7 57
.57
#45

AS B237—1967
UDC 621.791.052:
620.179.152:669.7.0

Australian Standard B237—1967

RADIOGRAPHIC EXAMINATION

OF FUSION WELDED BUTT JOINTS IN LIGHT ALLOYS

STANDARDS ASSOCIATION OF AUSTRALIA
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X-T59
.S7
2 - JUL 24
Copy 0 1967
#46
2B Cataloging
Subj Cat

AS O100 to O103—1967
UDC 674.03: 694.5: 694.6

Australian Standards O100 to O103 — 1967

MILLED PRODUCTS FROM AUSTRALIAN RAINFOREST TIMBER

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Incorporated by Royal Charter

2 - JUL 24
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.S7

AS Z37—1967
UDC 681.2 : 534.61

#47

Australian Standard Z37–1967

SOUND LEVEL METERS TYPE 1–GENERAL PURPOSE

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

2B Catalog
Subj Cat

X-T59
.S7

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#48

AS Z38—1967
UDC 681.2 : 534.61

Australian Standard Z38–1967

SOUND LEVEL METERS TYPE 2–PRECISION

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AS Z46 — 1967
UDC 389.151

#49

2B Catalog
Subj Cat

Australian Standard Z46 — 1967

THE INTERNATIONAL SYSTEM (SI) UNITS

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Incorporated by Royal Charter

X-T59
.S7
2 - JUL 24
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2B Cataloging
Subj Cat
#50

AS N35—1967
UDC 621.642.1:637.135

Australian Standard N35 — 1967

TINNED STEEL MILK CANS AND LIDS

STANDARDS ASSOCIATION OF AUSTRALIA
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2B Catalog
Subj Cat

X-T57
.S7

2 - JUL 24
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#51

AS B158—1967
UDC 621.642.3:
669.3—462.3

Australian Standard B158—1967

COPPER TUBES FOR WATER, GAS, AND SANITATION

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

2B Catalog
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2 - JUL 24
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X-T59
.S7
#52

AS B230—1967
UDC 621.791.052:
620.179.152:
621.643.4

Australian Standard B230—1967

RADIOGRAPHIC EXAMINATION

OF FUSION WELDED CIRCUMFERENTIAL BUTT JOINTS IN STEEL PIPES

STANDARDS ASSOCIATION OF AUSTRALIA
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X - T59
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2 - JUN 2
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AS A91 — 1967
UDC 691.36
SIB Ff1

#53

Australian Standard A91—1967

SAND-LIME (CALCIUM SILICATE) BRICKS

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

57

AS A154—1967
UDC 624.04: 347.44

Australian Standard A154—1967

METHOD OF MEASUREMENT OF CIVIL ENGINEERING QUANTITIES

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

X-159
#54

X-T59
.59

AS CZ7 — 1967
AS Z7 — 1967
AS Z45 — 1967
UDC 614.893

2 - DEC - 8
Copy 1967

Australian Standards CZ7, Z7 and Z45 – 1967

INDUSTRIAL EYE PROTECTION

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

2B Cat
Subj Cat

X-757
.57

Amendment No. 1
August 1967

STANDARDS ASSOCIATION OF AUSTRALIA

Incorporated by Royal Charter

2 - DEC - 6 0 1967

#56

AUSTRALIAN AMENDMENT No. 1

to

AS C380 — 1967

HEAVY-DUTY AIR-BREAK CIRCUIT-BREAKERS FOR A.C. SYSTEMS

PREFACE.

Insert the following Preface so that it may be read prior to the Foreword, page 7.

PREFACE

The endorsement of BS 3659:1963 as an Australian standard is subject to Australian amendment. AUST. AMDT No. 1 AUG. 1967

For certain British standards referred to herein, there are equivalent Australian standards or the British standards have been endorsed or proposed for endorsement as Australian standards. In all such cases the British reference should be altered to the Australian reference, as follows:

BS 162 — AS C340	BS 2757 — AS C320
BS 170 — AS C74	BS 2817 — AS C302
BS 223 — AS C325	CP 1008 — AS CC9
BS 2613 — AS C319	

Clause 2, Definitions.

Add the following definitions:

53. Electrically-exposed Installation. An installation in which the apparatus is subject to over-voltages of atmospheric origin (see AS C337, Insulation Co-ordination). AUST. AMDT No. 1 AUG. 1967

54. Electrically Non-exposed Installation. An installation in which the apparatus is not subject to over-voltages of atmospheric origin (see AS C337).

55. Co-ordination of Insulation. The process of correlating the insulation strengths of electrical equipment, with anticipated over-voltages and with the characteristics of protective devices (see AS C337). It consists of the steps taken to prevent damage to electrical equipment due to over-voltages and to localize flashovers (when they cannot economically be prevented) to points where they will not cause damage.

2B Cat
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Amendment No. 1
August 1967

#57

STANDARDS ASSOCIATION OF AUSTRALIA

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AUSTRALIAN AMENDMENT No. 1

to

AS C340—1967

ELECTRIC POWER SWITCHGEAR AND ASSOCIATED APPARATUS

Preface.

Insert the following preface so that it may be read prior to the Foreword, page 9:

PREFACE

The endorsement of BS 162:1961, including the amendments of October 1961 (PD 4359) and November 1962 (PD 4700) as an Australian standard is subject to Australian amendment. AUST. AMDT No. 1 AUG. 1967

References to the Electricity Supply Regulations and the Factories Acts of the United Kingdom shall be deemed to apply to the appropriate Australian Statutory requirements. These references will be found as follows:

Foreword, page 9.
Appendix C, page 50.

For certain British standards referred to herein, there are either equivalent Australian standards or the British standards have been endorsed or proposed for endorsement as Australian standards. In all such cases the British reference should be altered to the Australian reference as follows:

BS 7—AS C116 Ap., AS C346
BS 37—AS C39
BS 81—*delete*
BS 88—AS C135 Ap.
BS 89—AS C42
BS 90—AS C54
BS 91—AS C56
BS 108—AS C64
BS 116—AS C89
BS 137—AS C67
BS 148—AS C62
BS 158—AS C13
BS 159—AS C52
BS 160—AS C19
BS 170—AS C74
BS 223—AS C325
BS 229—AS C98
BS 587—AS 364, AS C381
BS 775—AS C63
BS 2613—AS C319
BS 2631—AS C339
BS 2746—AS C147 Ap., AS C347
BS 3659—AS C380

Price: 30c

OB Cat
Subj Cat

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Amendment No. 1
August 1967

#58

STANDARDS ASSOCIATION OF AUSTRALIA

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AUSTRALIAN AMENDMENT No. 1
to
AS C339 — 1967

OIL SWITCHES FOR ALTERNATING CURRENT SYSTEMS

FOREWORD.

Delete the Foreword and *substitute* the following Preface and Foreword:

PREFACE.

The endorsement of BS 2631:1955 as an Australian standard is subject to Australian amendment. AUST. AMDT No. 1 AUG. 1967

For certain British standards referred to herein, there are equivalent Australian standards or the British standards have been endorsed or proposed for endorsement as Australian standards. In all such cases the British reference should be altered to the Australian reference, as follows:

BS 116 — AS C89	BS 229 — AS C98
BS 149 — AS C62	BS 923 — AS C328
BS 162 — AS C340	BS 1086 — AS CC9
BS 223 — AS C325	

FOREWORD

This Australian standard supersedes AS C89—1940, only in so far as the latter, being an endorsement of BS 116:1937 relates to oil switches. BS 116:1952 in its revised form now relates to oil circuit-breakers only and has been endorsed with amendments as a revision of AS C89, leaving isolators and isolating switches to be the subject of separate standards.

The scope of this standard, and the rating and performance of the oil switches covered by it have been carefully considered in relation to the trend of service requirements and system levels in Australia.

Clause 1, Scope.

Delete the last sentence and *substitute:* AUST. AMDT No. 1 AUG. 1967

Neither does it include the additional requirements necessary in connection with flameproof enclosures.

Clause 2, Definitions.

Delete the word "British" in the first line and *substitute* "Australian". AUST. AMDT No. 1 AUG. 1967

Definition 24. Co-ordination of insulation. Delete "see Appendix C, Section 2e" and *substitute* "see AS C337, Insulation Co-ordination".

Price: 12c

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Amendment No. 1
August 1967

#59

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AUSTRALIAN AMENDMENT No. 1
to
AS C52—1967
BUSBARS AND BUSBAR CONNECTIONS

PREFACE.

Insert the following preface so that it may be read prior to the Foreword, page 7.

PREFACE

The endorsement of BS 159:1957, including the amendment of December 1958 (PD 3246), as an Australian Standard is subject to Australian amendment. AUG. AMDT No. 1 AUG. 1967

For certain British standards referred to herein, there are equivalent Australian standards or the British standards have been endorsed or proposed for endorsement as Australian standards. In all such cases the British reference should be altered to the Australian reference, as follows:

BS 116 — AS C89	BS 215 — AS C75
BS 158 — AS C13	BS 223 — AS C325
BS 162 — AS C340	BS 2817 — AS C302

Clause 2, Definitions.

Definition 14, Electrically exposed installation. Delete "(see Appendix C)" and *substitute* "(see AS C337, Insulation Co-ordination)". AUST. AMDT No. 1 AUG. 1967

Add the following definitions:

18. Co-ordination of insulation. The process of correlating the insulation strengths of electrical equipment, with anticipated over-voltages and with the characteristics of protective devices (see AS C337). It consists of the steps taken to prevent damage to electrical equipment due to over-voltages and to localize flashovers (when they cannot economically be prevented) to points where they will not cause damage.

19. Insulation level of apparatus. The level that determines the principal dielectric qualities of apparatus, and which is expressed for impulse-tested apparatus by a peak impulse value (impulse withstand voltage with full 1.2/50 μs wave) and for non-impulse tested apparatus by a power-frequency r.m.s. value (power-frequency withstand voltage) which the apparatus must withstand under specified test conditions.

For the general requirements to effect co-ordination of insulation of equipment under normal system conditions in Australia, see AS C337, Insulation Co-ordination.

Price: 15c

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Amendment No. 1
August 1967

#60

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2 - DEC - 6
1967

AUSTRALIAN AMENDMENT No. 1

to

AS C89—1967

OIL CIRCUIT-BREAKERS FOR ALTERNATING CURRENT SYSTEMS

Preface.

Insert the following preface so that it may be read prior to the Foreword, page 10:

PREFACE

The endorsement of BS 116:1952, including the amendments of March 1955 (PD 2143), June 1957 (PD 2832), December 1959 (PD 3585, PD 3586), November 1962 (PD 4724) and March 1965 (PD 5484), as an Australian standard is subject to Australian amendment. AUST. AMDT No. 1 AUG. 1967

For certain British standards referred to herein, either there are equivalent Australian standards or the British standards have been endorsed or proposed for endorsement as Australian standards. In all such cases the British reference should be altered to the Australian reference, as follows:

BS 148 — AS C62	BS 923 — AS C328
BS 162 — AS C340	BS 2631 — AS C339
BS 223 — AS C325	BS 2757 — AS C320
BS 229 — AS C98	CP 1008 — AS CC9

Clause 1, Scope.

Delete the last paragraph and *substitute:*

This Australian standard relates to oil circuit-breakers only. Oil switches are specified in AS C339 (BS 2631 : 1955 endorsed with amendments) and isolators in an endorsement of BS 3078 now under consideration. AUST. AMDT No. 1 AUG. 1967

Price: 70c

JB Cat
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Amendment No. 1
August 1967

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AUSTRALIAN AMENDMENT No. 1

to

AS K1, PART 0—1967

METHODS FOR THE SAMPLING OF IRON, STEEL, PERMANENT MAGNET ALLOYS AND FERRO-ALLOYS

Page 9. **Clause 4, General.**

Add after the words "scratch brushing", the following sentence:

Organic matter, if present, shall be removed before machining by treatment with suitable solvents so as to leave no interfering residue. AUST. AMDT No. 1 AUG. 1967

Page 13. **Clause 5, Steel.**

Delete the first sentence and *substitute:*

In sampling from a lot or shipment, each heat of steel should be considered separately when possible. The location, number of samples and method of sampling shall be agreed between the supplier and the purchaser in relation to one of the following procedures. AUST. AMDT No. 1 No. 1 1967

Add after the words "base material": (Refer to Clause 4, General).

Insert an additional paragraph before existing second paragraph, as follows:

For check analyses, steel should be in the condition as received from the steel producer. Pieces of the original full-size section when possible shall be submitted rather than millings, cuttings, etc., unless the latter is specifically requested. The location and method of sampling shall conform to one of the following procedures.

Add on page 16 after paragraph (iii) at top of page:

Where milling is impracticable drilling may be employed, but it is not recommended for rimming steels.

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Amendment No. 1
August 1967

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AUSTRALIAN AMENDMENT No. 1

to

AS C13 — 1967

THE MARKING AND ARRANGEMENT OF SWITCHGEAR BUSBARS, MAIN CONNECTIONS AND SMALL WIRING

FOREWORD. AUST. AMDT No. 1 AUG. 1967

Delete "BS 108:1951" from the second paragraph and *substitute* "AS C64 (under revision)".

Clause 1, Scope. AUST. AMDT No. 1 AUG. 1967

Delete "BS 162" and *substitute* "AS C340 (BS 162:1961 endorsed with Australian amendments)".

Table 1, Colours and Symbols for Busbars and Main Connections. AUST. AMDT No. 1 AUG. 1967

Add a note as follows:

NOTE: Colours for 2-phase and 1-phase systems will apply only where these supplies are not derived from a 3-phase system having colours R, Y and B.

Clause 4, Marking of Small Wiring. AUST. AMDT No. 1 AUG. 1967

Delete from second paragraph "(See Appendix A paras. A1 and A2)".

Delete the paragraph "Identification numbering shall read from the terminal outwards on all wires".

Clause 6, Diagrams. AUST. AMDT No. 1 AUG. 1967

Delete "BS 108" and *substitute* "AS C64 (in course of revision)".

2 B Cat
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2 - DEC - 6
1967

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Amendment No. 8
September 1967

#63

STANDARDS ASSOCIATION OF AUSTRALIA

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AMENDMENT No. 8
to
AS CCI—1961, Part I
SAA WIRING RULES

This amendment is in the form of a relaxation and it is the intention that it become applicable from the date of publication.

Rule 421, PLUGS AND PLUG-SOCKETS.

(c) Protection of Plug-sockets.

Delete "6 in." from the second line and *substitute* "3 in.".

AMDT
No. 8
SEPT.
1967

2 - DEC - 0
1967

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S7

August 1967

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

#64

INTERIM CORRIGENDUM

to

AS B43, Part 2—1967

REAMERS, COUNTERSINKS AND COUNTERBORES

Page 20. **Table 5, Hand Reamers** (as amended by BSI Amendment No. PD 5848).

Insert the following details after size 15/64:

1	2	3
Diameter D	Overall Length L_1	Cutting Edge Length L_2
in ¼	in 3 13/16	in 2

SAA NOTE: These details were omitted from Table 5 by PD 5848 in error; this interim corrigendum is issued by SAA to apply until a formal amendment is issued by the British Standards Institution.

28 Cat
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Amendment No. 1
August 1967

#65

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AMENDMENT No. 1

to

AS C63-1965

ELECTRICAL CONTACTORS

Page 5. **Clause 1.5.2, Standard A.C. Supply Frequency.**

Delete the word "voltage" in the second line.

AMDT No. 1 AUG. 1967

Page 10. **Clause 3.2, Type of Contactor.**

Delete existing wording for item (iii) and *substitute*:

(iii) The interrupting medium employed for the main circuit, e.g. air, oil, etc.

AMDT No. 1 AUG. 1967

Page 15. **Clause 3.8, Utilization Category.**

In the third line of the first paragraph *delete* the words "in normal and occasional operation".

AMDT No. 1 AUG. 1967

Price: 20c

2BC Cat
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2 - DEC - 6
1967

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Amendment No. 2
August 1967

#66

STANDARDS ASSOCIATION OF AUSTRALIA

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AUSTRALIAN AMENDMENT No. 2

to

AS E33—1959

PROTECTIVE HELMETS FOR MOTOR CYCLISTS

Page 7. **Clause 7, Sampling.**

Delete the note added by the Australian endorsement.

AUST. AMDT No. 2 AUG. 1967

Page 10. **Clause 15, Marking.**

Delete the note forming part of the Australian endorsement and *substitute* the following:

NOTE: The number AS E33 on or in relation to the product is a claim by the manufacturer that it complies with the requirements of the standard.

AUST. AMDT No. 2 AUG. 1967

The Standards Association of Australia is the owner of a registered certification trade mark. This is shown below, enclosed in the words 'Approved to Australian Standard'. This mark can be used only by manufacturers licensed under the certification mark scheme operated by the SAA. The presence of this mark on or in relation to a product is an assurance that the goods have been produced to comply with the requirements of the Australian Standard under a system of supervision, control and testing operated during manufacture and including periodical inspection at the manufacturer's works in accordance with the certification mark scheme of the SAA.

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APPROVED TO AUSTRALIAN STANDARD

E33

2B Cat
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.S7
#67

Amendment No. 3
August 1967

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2 - DEC - 6
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AMENDMENT No. 3 to AS CA20—1960

THE ERECTION AND FIXING OF FIBROUS PLASTER PRODUCTS

Page 16. **Rule 14, Corners of Walls.**

Delete existing Rule 14 and *substitute:*

14. CORNERS OF WALLS.

AMDT No. 3 AUG. 1967

(a) Internal Angle. Where internal corner joints are to be stopped, the corner studs shall be reinforced with a 1½ x 1½ in by 26 B.G. galvanised iron angle securely nailed to both studs before the sheets are fixed.

(b) External Angle. To provide a continuous link between the adjacent wall surfaces at external angles, the sheeting shall, when practicable, be bent around the angle after first making a sawcut.

(c) Alternative Treatment at Corners.

(i) *Internal Angle.* At internal angles which are not reinforced with galvanised iron in accordance with clause (a) above, the adjacent sheets may either be hacked, scrimmed, and stopped, or be reinforced with a muslin strip trowelled evenly on both fibrous plaster sheets.

(ii) *External Angle.* At external angles which are not returned in accordance with clause (b) above, the adjacent sheets may be:
hacked, scrimmed, and stopped; or
reinforced with a muslin strip trowelled evenly on both fibrous plaster sheets; or
reinforced with galvanised iron angle not less than 26 B.G. securely nailed to corner stud(s) before or after the fibrous plaster sheets are fixed.

Price: 20c

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Amendment No. 1
August 1967

#68

STANDARDS ASSOCIATION OF AUSTRALIA

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2 - DEC - 6
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AMENDMENT No. 1

to

AS B6.1—1966

RUBBER CONVEYOR AND ELEVATOR BELTING OF PLY CONSTRUCTION FOR GENERAL APPLICATION

Page 4. **Clause 2.1, Construction—General**

Amend the first sentence to read:

"The belting shall consist of one or more plies of woven fabric or parallel textile cords or of solid woven textile content, impregnated with rubber, with a suitable cover . . . ." AMDT No. 1 AUG. 1967

Page 8. **Clause 4.1.2, Physical Properties—Elongation.**

Add the following sentence to the first paragraph:

"In addition, the elongation in the weft direction shall be not less than 10% at the break point." AMDT No. 1 AUG. 1967

Amend Note 2 to read:

"The reference load of 10 per cent of the specified tensile strength . . . ."

Page 11. **Clause 6.3, Testing and Certification—Retest.**

Delete existing clause and *substitute*:

6.3 Retest. In the event of a test failing to meet the requirements of the specification, the test shall be repeated from the same sample from which the original test pieces failed. In the event of the second test failing, the belt shall be deemed not to comply with this specification. AMDT No. 1 AUG. 1967

2B Cat
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2 - DEC - 6
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#69

Interpretation No. 5
September 1967

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

INTERPRETATION No. 5
to
SAA BOILER CODE

BOILER TUBES

This interpretation is issued for guidance on an aspect of the Code which is not adequately covered by the present edition. This form of issue has been adopted to avoid extensive or premature formal amendments. The interpretation may be regarded as equivalent to an amendment and will be incorporated in the Code as and when practicable.

ENQUIRY. May boiler tubes which comply with BS 3059 be used in boilers complying with the requirements of AS CB1?

REPLY. Committee ME/1—Boilers and Unfired Pressure Vessels, considers that boiler tubes which comply with BS 3059:1958 including Amendments 1, 2 and 3 are acceptable for use in boilers which comply with AS CB1, except that the following tubes may also be produced from semi-killed steel for design metal temperatures not exceeding 800°F (427°C):

(i) BS 3059/1 (Hot Finished Seamless Carbon Steel Boiler and Superheater Tubes—20 tonf/in² minimum tensile strength), and

(ii) BS 3059/2 (Cold Drawn Seamless Carbon Steel Boiler and Superheater Tubes—20 tonf/in² minimum tensile strength).

NOTES:

1. The above ruling must not be used as the basis for automatic acceptance of tubes to BS 3059 : 1967 when it becomes available.
2. This Interpretation is applicable to Parts I-IV—1954, Part V—1957, Part III—1957 and Part I—1962 of AS CB1.

2B Cat
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2 - DEC - 6
NOV 0 1967
X - T59
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AS Z10—1967
UDC 614.891:622.8

Australian Standard
Z10 – 1967

INDUSTRIAL SAFETY HELMETS

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

S
FB Cat
Subj Cat
2 - DEC - 6
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X-T59
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#71

AS K164—1967
UDC 621.168 : 662.66

Australian Standard
K164–1967

METHOD FOR DETERMINING THE

HARDGROVE GRINDABILITY INDEX OF HARD COAL

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

X-TS9
.S7 #72
2 - DEC - 6
Copy 0 1967

AS C164—1967 Ap.
UDC 621.312 : 644 : 19

SAA Approval and Test Specification C164–1967

ELECTRIC BLANKETS

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

FB Cat
Subj Cat
X-T59
.S7
2 - DEC - 6
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AS C375 — 1967
UDC 621.316.8:534.83

Australian Standard C375 — 1967

METHOD OF MEASUREMENT OF CURRENT NOISE GENERATED IN FIXED RESISTORS

STANDARDS ASSOCIATION OF AUSTRALIA
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2B Cat
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2 - DEC - 6
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X - T59
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AS O76—1967
UDC 69.028.1:691.11
SFB (32) Hi

Australian Standard O76 — 1967

WOODEN DOOR FRAMES AND DOOR JAMB LININGS

STANDARDS ASSOCIATION OF AUSTRALIA
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2 B Cat
Subj Cat
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.S7 #75
2 - DEC - 8
Copy 2 1967

AS B238—1967
UDC 621.867.2 : 678.064-419

Australian Standard B238–1967

METHODS OF TESTING CONVEYOR AND ELEVATOR BELTING

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

X-T59
.S7

AS A10—1967
UDC 665.45: 625.75

2 - DEC - 6
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Australian Standard A10 – 1967

RESIDUAL BITUMEN AND FLUXED NATIVE ASPHALT

FOR ROADMAKING PURPOSES

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

X-T59
.S7 #77

AS G26 — 1968
UDC 669.14-156-157-422

Australian Standard G26–1968

HARDENED AND TEMPERED CARBON STEEL BARS

FOR GENERAL ENGINEERING PURPOSES

2-APR-8
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.S7
#78

AS G27—1968
UDC 669.14-122.4-411

Australian Standard G27—1968

HOT-ROLLED CARBON AND CARBON-MANGANESE STEEL PLATE

FOR GENERAL ENGINEERING PURPOSES

BASED ON CHEMICAL COMPOSITION

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AS B279 — 1968
UDC 621.921

#79

Australian Standard B279 – 1968

COATED ABRASIVES
(TECHNICAL PRODUCTS)

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AS B273—1968
UDC 621.821

Australian Standard B273—1968

CHAIN BLOCKS
POWER OPERATED

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#81

AS K181—1968
UDC 001.4:622.7:622.33

Australian Standard K181—1968

TERMS USED IN COAL PREPARATION

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AS G7 — 1968
UDC 669.14-122.4-412

Australian Standard G7—1968

HOT-ROLLED CARBON STEELS AND CARBON-MANGANESE STEELS

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AS G23 — 1968
UDC 669.14-122.3-418.2

Australian Standard G23–1968

COLD-ROLLED LOW CARBON STEEL STRIP

TO TEMPER DESIGNATIONS (COILS AND CUT LENGTHS)

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Amendment No. 1
November 1968

AMENDMENT No. 1
to
AS A83—1966
COLD-WORKED REINFORCING BARS FOR REINFORCED CONCRETE

2 FEB 20 1969

Page 5. **Clause 6.3, Square Twisted Bars.**

Delete existing clause and *substitute*:

6.3 Twisted Bars. If cold working of a bar is effected by twisting the bar, the amount of twisting shall be such that the pitch of one twist through 360 degrees is as follows: AMDT. No. 1 Nov. 1968

(a) not less than eight times the nominal size of the bar

(b) *Tensile Tests.* Paragraph 3, line 6, after "form" *insert*:

". . . . up to 2 in (50.8 mm) thick. Above 2 in, the additional test shall be made for each variation of 1 inch (25.4 mm) in thickness." AMDT. No. 2 Nov. 1968

(iv) Fixed projections which individually occupy a [illegible] 0.01 ft³, such as light shields, thermostat [illegible] knobs, shelf hangers, and shelf, pan and basket [illegible] *not removable* without the aid of tools.

All dimensions shall be measured to the nearest [illegible]

NOTE: The volumes occupied by the following are included [illegible] refrigerated volume of each compartment and *should not* [illegible]

(a) Convenience features such as crispers, meat keepers, [illegible] and cabinet shelves (Classes 1 to 5), and can or pa[illegible] or dispensers (provided such features are not proje[illegible] fronts, ice makers and non-refrigerated shelves (Classes [illegible]

(b) Door shelf fronts and bottoms, and doors of special [illegible] located within the door.

(c) Features such as trims and shelf, pan and basket [illegible] items which are removable without the aid of tools.

Amendment No. 6
October 1968

#85

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No. 6
to
AS CB1, Part I—1962
SAA BOILER CODE
BOILERS OTHER THAN WATER TUBE BOILERS AND LOCOMOTIVE BOILERS FOR RAILWAY PURPOSES

Page 4. **PREFACE.**

In all standards listed *delete* "under revision" and "in course of preparation". *Add*: AMDT. No. 6 OCT. 1968

AS CB18 SAA Pressure Piping Code

AS B262 Image Quality Indicators for Radiography

Page 12. **Rule 2.1, Material Specifications.**

In section "Carbon Steels" *delete* "A.S. No. B.58 Carbon Steel Plates for Boilers, Unfired Pressure Vessels and Their Appurtenances" and *substitute* "AS B250 Steel Plates for Boilers and Unfired Pressure Vessels". AMDT. No. 6 OCT. 1968

Page 15. **Rule 2.5, Stresses.**

Delete "and for pipes shall be the values stated in A.S. No. B.65 for the relevant pipe material,". AMDT. No. 6 OCT. 1968

Add a new last sentence to 1st paragraph:

"For integral pipes and branches, the maximum permissible design stresses shall be the lower of the appropriate values stated in AS CB18 and 25 per cent of the specified minimum tensile strength."

Page 15. **Table 2.5, Permissible Tensile Design Stresses for Carbon Steel Plates, Bars and Sections.**

Delete existing table (as amended by Amendment No. 3) and *substitute*:

Price: 50c

Amendment No. 9
October 1968

#85

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No. 9

to

AS CB1, Parts I-IV—1954

SAA BOILER CODE

BOILERS AND UNFIRED PRESSURE VESSELS AND THEIR APPURTENANCES

Explanatory Note: This Part of the SAA Boiler Code is currently applicable to Water Tube Boilers and Unfired Pressure Vessels. It is now under revision and it is intended that it will be superseded in 1969 by a new Part II dealing with Water Tube Boilers, a new Part IV dealing with Unfired Pressure Vessels, and by extensions to AS CB18 SAA Pressure Piping Code. Hence this Amendment No. 9 only deals with those rules affected by the recent issue of AS CB18 and AS B250, Steel Plates for Boilers and Unfired Pressure Vessels.

Page 5. **Scope.**

Add the following paragraph:

The rules in this Code dealing with the design, construction and inspection of pressure piping constructed of ferrous materials are now superseded by the corresponding requirements in AS CB18, SAA Pressure Piping Code, Part I—Ferrous Piping. AMDT. No. 9 OCT. 1968

Page 8. **Rule G-103, Steel Plate.**

Delete existing rule (Amendment No. 2) and *substitute*:

G-103 Steel Plate. Steel plates subject to pressure shall comply with AS B250. AMDT. No. 9 OCT. 1968

Page 9. **Rule G-112, Materials to Specification.**

In section "Carbon Steel for Boilers" *delete* "A.S. No. B.58 Carbon Steel Plates" and *substitute*: AMDT. No. 9 OCT. 1968

AS B250 Steel Plates for Boilers and Unfired Pressure Vessels.

Page 95. **Rule G-515, Low Water Cut-Out Devices for Boilers** (Amendment No. 5).

Add the following Note:

NOTE: Reference should be made to Rule 4.9 of AS CB1 Part I—1962 for recent requirements for low water devices for shell boilers, which should also be adopted for water tube boilers where applicable. AMDT. No. 9 OCT. 1968

Amendment No. 11
October 1968

#87

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No. 11
to
AS CB1, Part V—1954
SAA BOILER CODE — WELDING

Explanatory Note: This Part of the SAA Boiler Code is now under revision and it is intended that it will be superseded in 1969 by a new Part II dealing with Water Tube Boilers and a new Part IV dealing with Unfired Pressure Vessels. Hence this Amendment No. 11 only deals with those rules affected by the recent issue of AS CB18, Pressure Piping Code, and AS B250, Steel Plates for Boilers and Unfired Pressure Vessels.

Page 10. **Rule 3-2, Steel.**

Delete reference to A.S. No. B.58 and *substitute*:

"AS B250 Steel Plates for Boilers and Unfired Pressure Vessels". AMDT. No. 11 OCT. 1968

Add the following new 2nd paragraph:

Where plates conforming to AS B250 : 5, Grades 32R and 36R are used with the listed design stresses which take into account the enhanced properties due to controlled rolling, special care shall be taken that the plates are not subjected to temperatures exceeding 620°C (1148°F) either during fabrication or use. See Appendix B2 of AS B250.

Page 20. **Rule 4-61, Thickness and Design Pressure of Cylindrical Shells.**

Delete existing Table II, Maximum Allowable Working Stresses for Carbon Steels, and Notes 1 to 4 (Amendment No. 9), and *substitute*:

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November 1968

#88

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No. 1

to

AS E33—1968

PROTECTIVE HELMETS FOR MOTOR CYCLISTS

Page 5. **Clause 2.1, General.**

Insert at the end of this clause the following additional paragraph:

Press stud fasteners for visors may project not more than 3/16 in (4.8 mm) provided that the centre of each stud is not more than 5 in (127 mm) either side of the frontal centre of the helmet, measured on the circumference. AMDT. No. 1 NOV. 1968

Page 7. **Clause 3.3, Conditioning for Tests.**

1st paragraph—*delete* 1st sentence.

3rd paragraph (page 8), 3rd line—alter "37°C" to "37°F". AMDT. No. 1 NOV. 1968

Page 9. **Clause 4.1, Label.**

Delete existing item (iii) and *substitute*:

(iii) If fitted with a drawlace to adjust the harness, this lace must be knotted securely. AMDT. No. 1 NOV. 1968

Page 10. **Appendix A2, Method.**

At the end of 1st sentence *insert* "with the drawlace and any other adjustment completely slackened". AMDT. No. 1 NOV. 1968

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Amendment No. 2
November 1968

#89

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No. 2
to
AS E35—1965
SEAT BELT ASSEMBLIES FOR MOTOR VEHICLES

Page 3. **PREFACE.**

Delete second Paragraph. AMDT. No. 2 NOV. 1968

Page 4. **CONTENTS.**

Delete Appendices A, B and C. AMDT. No. 2 NOV. 1968

NOTE: Appendices D and E will be renumbered when this standard is revised.

Pages 10 and 11. **Clause 4, WEBBING.**

Delete the whole of this clause and *substitute*:

4 WEBBING. Webbing shall comply with the requirements of AS E47, Webbing for Restraining Devices for Occupants in Motor Vehicles. AMDT. No. 2 NOV. 1968

Webbing for harness straps shall comply with the requirements for Type B1, C1 or C2.

Webbing for all other body restraining straps shall comply with the requirements for Type C1 or C2.

Pages 17 and 18.

Delete Appendix A, Method of Test for Width and Dry Breaking Strength of Webbing. AMDT. No. 2 NOV. 1968

Pages 19 and 20.

Delete Appendix B, Method of Test for Elongation and Hysteresis of Webbing. AMDT. No. 2 NOV. 1968

Page 21.

Delete Appendix C, Method of Test for Wet Breaking Strength of Webbing. AMDT. No. 2 NOV. 1968

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January 1969
Incorporating Corrigendum May 1968

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CORRIGENDA

to

AS Z30 — 1966

INTERCONVERSIONS OF INCH AND METRIC DIMENSIONS

Page 5. **Clause 2, 8th line.**

Substitute "extreme" for "extremes".

Page 32. **Column 2, 4th bottom value.**

Substitute ".011 417 3" for ".011 117 3".

Page 32. **Column 3, 11th bottom value.**

Substitute ".008 700 8" for ".008 700 0".

Page 33. **Column 2, 9th top value.**

Substitute ".003 385 8" for "003 305 8".

Page 37. **Column 1, 17th top value.**

Substitute ".033 267 7" for ".032 267 7".

Page 37. **Column 2, 17th top value.**

Substitute ".033 307 1" for ".032 307 1".

Page 37. **Column 3, 17th top value.**

Substitute ".033 346 5" for ".032 346 5".

Page 37. **Column 4 ,17th top value.**

Substitute ".033 385 8" for ".032 385 8".

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AS B172.4—1969
UDC 621.921 : 621.922

#91

Australian Standard B172, Part IV–1969

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BONDED ABRASIVE PRODUCTS

Part IV — SHAPES, SIZES AND IDENTIFICATION OF MOUNTED WHEELS

(INCH SERIES)

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.S7
#92

AS B281—1969
UDC 621.646.4:621.642.02

Australian Standard B281—1969

SAFETY DEVICES FOR GAS CYLINDERS

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AS CA47—1969
UDC 693.22
STB Abs: (3)F

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Australian Standard CA47—1969

SAA BRICKWORK CODE

(CLAY BRICKS AND CONCRETE BRICKS)

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AS N37 — 1969
UDC 621.646.1:637.125

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Australian Standard N37—1969

VACUUM REGULATORS FOR MILKING MACHINES

STANDARDS ASSOCIATION OF AUSTRALIA
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Amendment No. 2
January 1969

#95

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AMENDMENT No. 2
to
AS C97—1964
ELECTRIC ARC WELDING PLANT

Page 6. **Definition 1.2.7, Rated Input Current.**

Add the following note:

NOTE: For limited input machines and light industrial machines of the tapped reactance type where the design is such as not to provide for operation at 100 per cent duty cycle, the rated input current is taken as rated output current times $\sqrt{d}$, where d is the duty cycle stated on the nameplate for the rated output current expressed as a decimal fraction (i.e. for 30 per cent duty cycle, $d = 0.3$). AMDT. No. 2 JAN. 1969

Page 8. **Clause 2.1.5, Limited Input Plant.**

In item (ii) *delete* "7.2 kVA" and *substitute* "8.5 kVA". AMDT. No. 2 JAN. 1969

Page 17. **Clause 5.1.2, Type Tests.**

In item (ii) *delete* "at 100 per cent duty cycle". AMDT. No. 2 JAN. 1969

Page 18. **Clause 5.2.1, General Requirements.**

In item (iii) *delete* "(not applicable to limited input machines)" and *substitute*:

"(not applicable to limited input machines and light industrial machines of the tapped reactance type where the design is such as not to provide for operation at 100 per cent duty cycle)." AMDT. No. 2 JAN. 1969

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Interpretation No. 6
January 1969

#96

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INTERPRETATION No. 6
to
SAA BOILER CODE

HIGHER DESIGN STRESS VESSELS

This interpretation is issued for guidance on an aspect of the Code which is not adequately covered by the present edition. This form of issue has been adopted to avoid extensive or premature formal amendments. The interpretation may be regarded as equivalent to an amendment and will be incorporated in the Code as and when practicable.

ENQUIRY. Pending the issue of Appendix H of AS CB1 Part IV which will provide for the use of higher design stresses, under what conditions may unfired pressure vessels be designed and constructed using higher design stresses comparable with those in use in the United Kingdom and the Continent?

REPLY. Committee ME/1—Boilers and Unfired Pressure Vessels, considers that as an interim measure until Appendix H of AS CB1 Part IV is available, the requirements in BS 1515 Part 1 including Amendments No. 1 and No. 2 will comply with the intent of the SAA Boiler Code for application to unfired pressure vessels, subject to the following conditions:

1. Types of Vessels. Vessels to which this interpretation may be applied are those—

(a) which are static; and
(b) constructed of carbon, carbon-manganese and low alloy steels referred to in Clause 2 below; and
(c) for use at low temperatures or through to high temperatures; and
(d) using components and parts for which BS 1515 specifies design requirements.

It is not intended that this interpretation apply to transportable vessels, or to vessels of complex construction subject to severe thermal stress conditions, or to vessels which are subject to severe corrosion.

2. Materials.

2.1 In addition to the materials listed in BS 1515 Part 1, the following steels are also permitted:

(a) steels complying with AS B250 and used on the basis of equivalents to BS 1501 steels as listed in Appendix C of AS B250;

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AS L48 — 1969
UDC 677.061:667.01

#97

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Australian Standard
L48—1969

DETERMINATION OF TWIST IN YARN IN PACKAGED FORM

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January 1969

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AMENDMENT No. 2
to
AS C316—1965
AUTOMATIC ELECTRIC STORAGE WATER HEATERS
(10 Gallons Capacity and Upwards)

Page 12. **Table 1, Heat Losses.**

Delete existing table and note and *substitute*:

AMDT. No. 2 JAN. 1969

Capacity of Water Heater	Heat Loss—kWh per 24 hours		
gallons	Vented water heaters with integral feed tanks	Vented water heaters without integral feed tanks	Unvented water heaters with integral temperature relief valves
10	2.3	2.1	2.3
15	2.6	2.3	2.5
20	2.9	2.6	2.8
30	3.3	3.0	3.2
40	3.6	3.3	3.5
50	3.9	3.5	3.7
60	4.1	3.7	3.9
70	4.3	3.9	4.1
80	4.5	4.1	4.3
100	4.9	4.4	4.6
120	5.1	4.7	4.9
150	5.6	5.1	5.3

NOTE: Table 1 is based on an empirical formula for maintenance rate as follows:

For vented heaters with integral feed tank ..... $M = 1.05\sqrt[3]{C}$

For vented heaters without integral feed tank ..... $M = 0.95\sqrt[3]{C}$

For unvented water heaters with integral temperature relief valves ..... $M = 0.95\sqrt[3]{C} + 0.2$

where

M = heat loss in kWh per 24 hours at 100 degF (55.5 degC) rise.
C = nominal capacity in gallons.

Page 13. **Clause 4.5.2.5, Connection of Water Heater to Pipelines During Test.**

Add a new requirement:

(iii) The drain system from all relief valves shall be disconnected at the outlet of the valve. No. 2 AMDT. JAN. 1969

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.57
2B Cat Only
#99

Amendment No. 3
January 1969

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TO GUARD OFFICE
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FOR STAFF USE
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AMENDMENT No. 3
to
AS A2—1963
PORTLAND CEMENT

2 -APR 28
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Clause 2, Description.

Delete existing 2nd paragraph and *substitute* the following:

Additions of materials, other than water and/or calcium sulphate containing not less than 30 per cent SO_3, shall not be permitted except that, at the option of the manufacturer, processing additions may be used provided such materials in the amounts used have been shown to be not harmful in accordance with ASTM Specification C465, Specifications for Processing Additions for Use in the Manufacture of Portland Cement. AMDT. No. 3 JAN. 1969

Clause 5, Chemical Properties.

Delete existing clause and *substitute* the following: AMDT. No. 3 JAN. 1969

5 CHEMICAL PROPERTIES.

5.1 Analysis. When the cement is analysed chemically in accordance with the procedures described in Part II, Section 1, the following limits shall not be exceeded:

	max. %
Loss on ignition	3.1
Insoluble residue	2.1
Sulphuric anhydride (SO_3)	3.1
Magnesia	4.2

5.2 Processing Additions. Where a processing addition is used, the manufacturer shall state on the bag or, in the case of bulk cement, in writing to the purchaser, that a processing addition has been incorporated in the cement. At the request of the purchaser the manufacturer shall state in writing the nature, amount and identity of any processing addition that may have been used and shall, if requested, supply test data showing compliance of such processing addition(s) with ASTM Specification C465.

NOTE: Test data from the United States or elsewhere showing that the processing addition meets the requirements of Section 3(a) (1) of ASTM C465 will be deemed sufficient evidence of compliance.

Clause 10, Compressive Strength.

In Table 1, alter the minimum compressive strength of Type A cement from 4000 to 4500 lbf/in² at 7 days and from 5500 to 6500 lbf/in² at 28 days. AMDT. No. 3 JAN. 1969

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AS P5—1969
UDC 686:865

#100

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Australian Standard P5—1969

PUNCHING PATTERNS FOR ROUND HOLES USED IN FILES AND LOOSE LEAF BINDERS

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